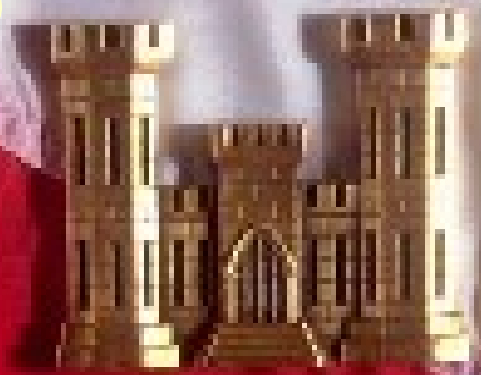
Dam Safety Criteria for Environmental Restoration Dams Designed and Constructed by USACE, and turned over to Sponsors



Presentation for the

Planning Community of Practice Conference

by

US Army Corps of Engineers®

Outline

- Federal Definition of a Dam
- Environmental Restoration Projects
- Plan Formulation and Dam Safety Concerns
- The Way Ahead
- Questions/Discussion

Federal Definition of a Dam

Any artificial barrier that exceeds six feet in height and impounds water with a maximum storage capacity greater than 50 acre-feet is subject to all Federal regulations and guidelines of a dam.

-The National Dam Safety Program Act
PL 104-303, section 215

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Flood Control Dam

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Environmental Restoration Projects

Section 1135 – Habitat Restoration

- ". . . project modifications in the structures and operations of Corps of Engineers projects for the purpose of improving the environment in the public interest . . . if such measures do not conflict with the authorized project purposes.

General Investigations

- Everglades

Section 206 Projects – Aquatic Ecosystem Restoration

Environmental Restoration Projects

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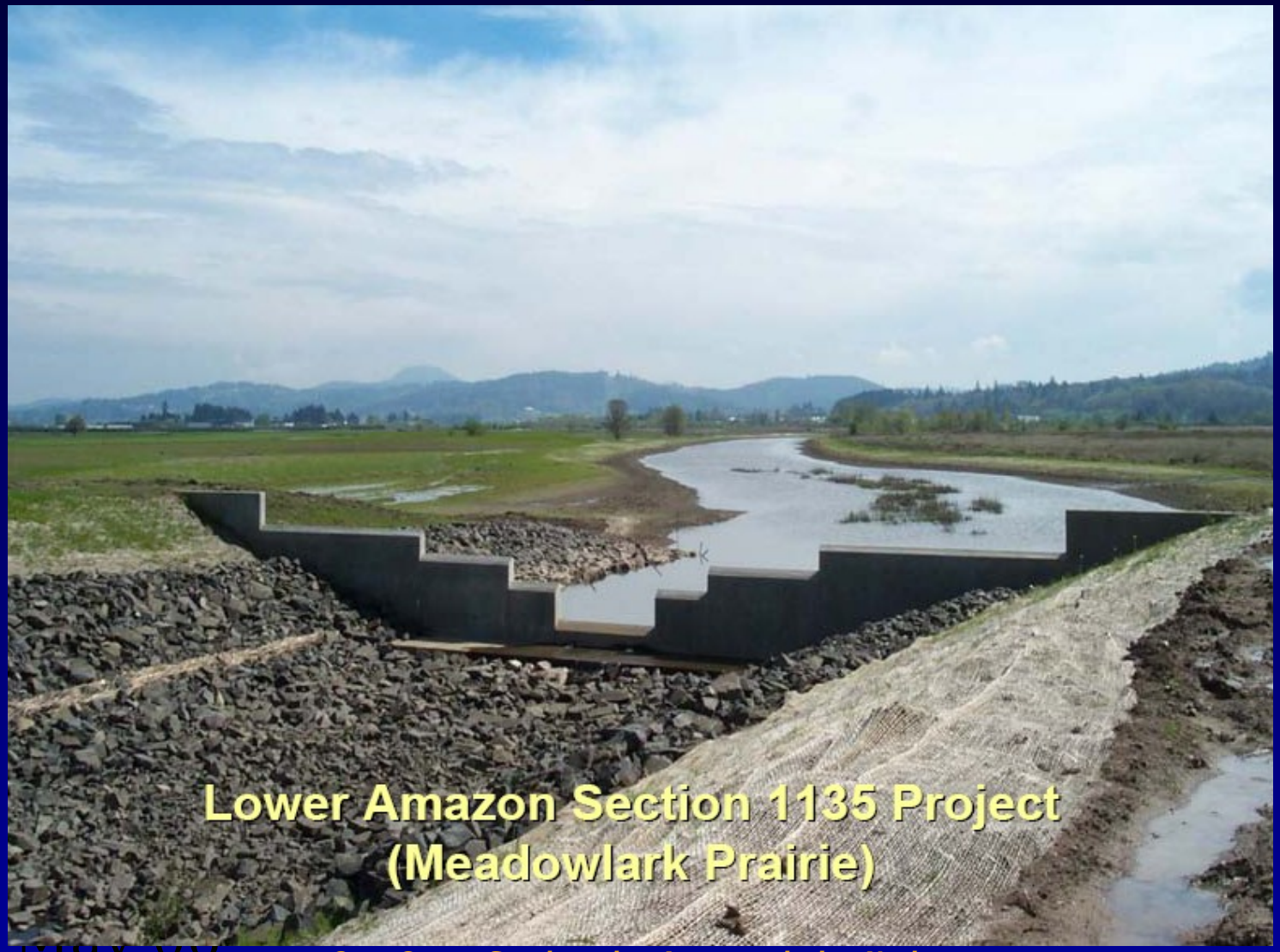

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Plan Formulation and Dam Safety Concerns

Design Criteria
1135 Projects
Ownership

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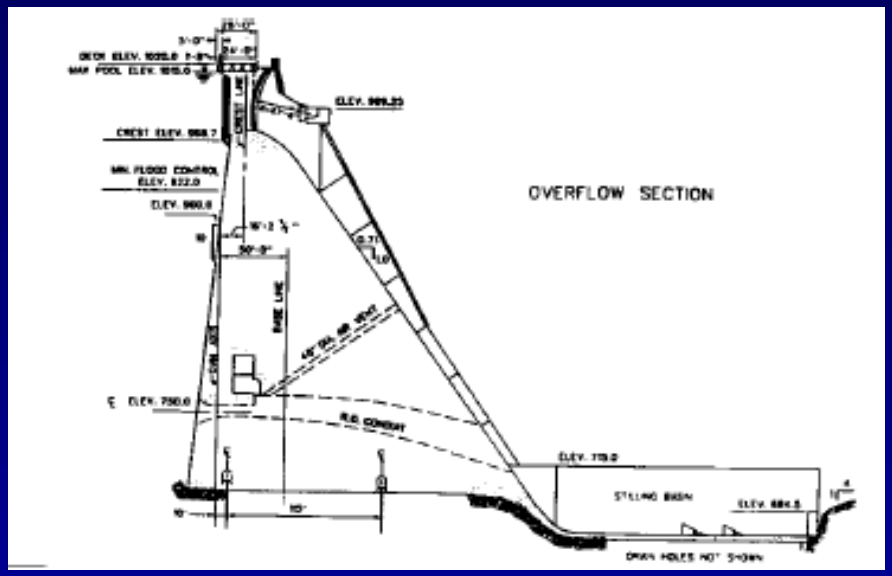
Design Criteria

Design Guidance for Environmental Structures

- Hazard level determination specifies design criteria.
- Criteria were developed primarily for flood control and hydropower dams.



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Design Criteria

Should the criteria be the same for environmental projects?

Ed Pastor Kino Environmental Restoration Project
Jennifer Jones

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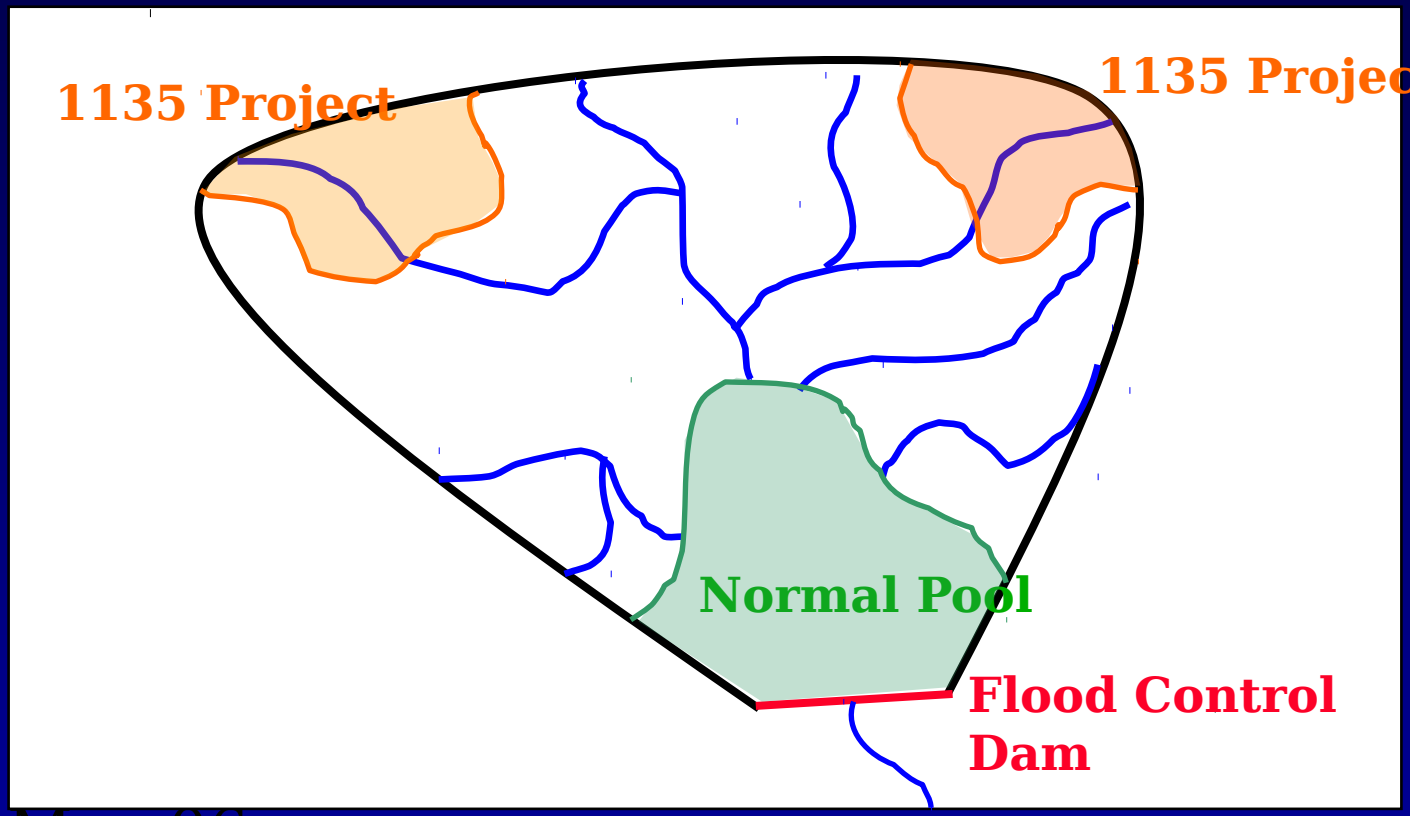
1135 Projects

1135 projects cannot conflict with the original project purposes.



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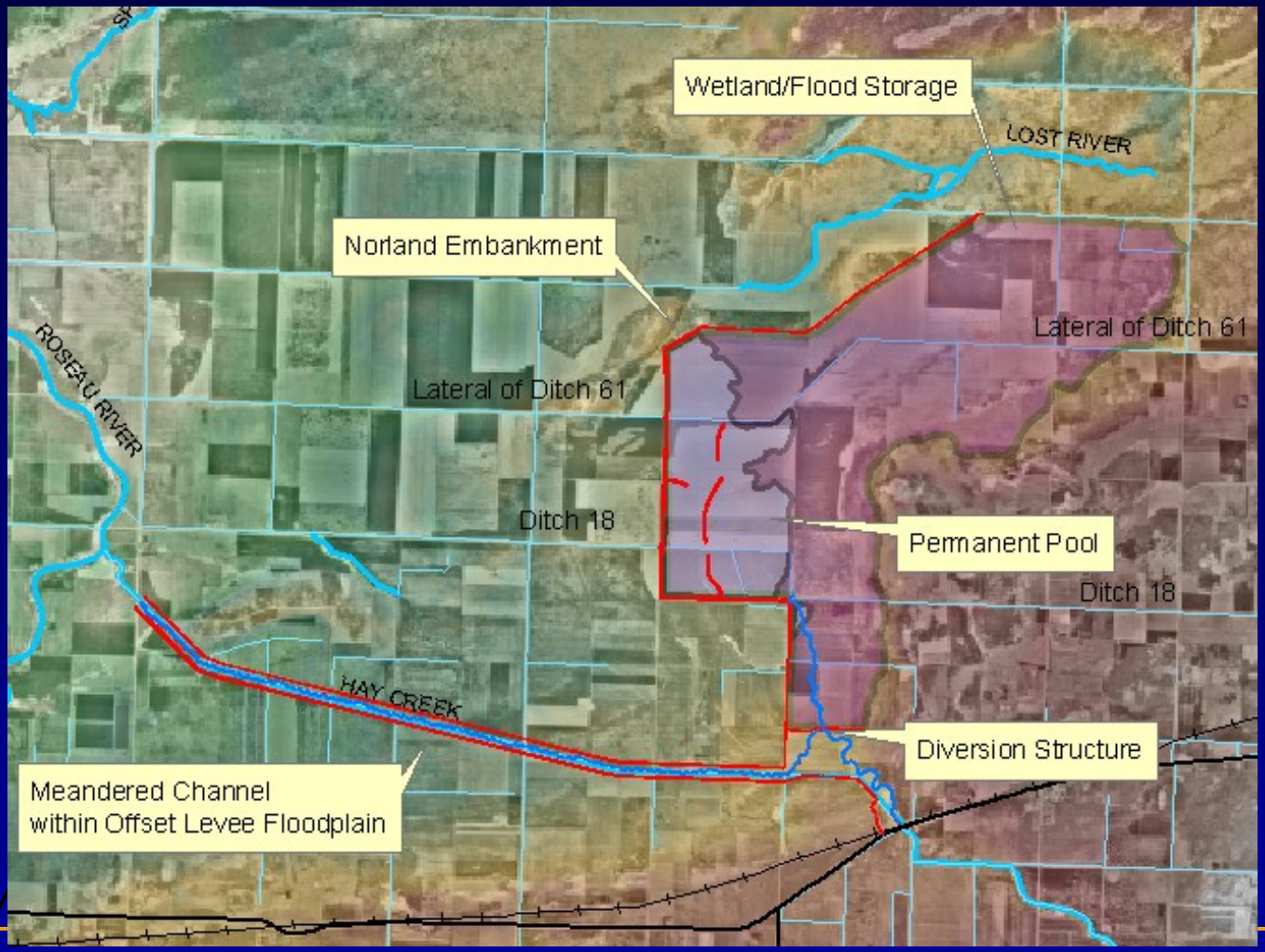
206 Projects

Downstream Concerns Must Be



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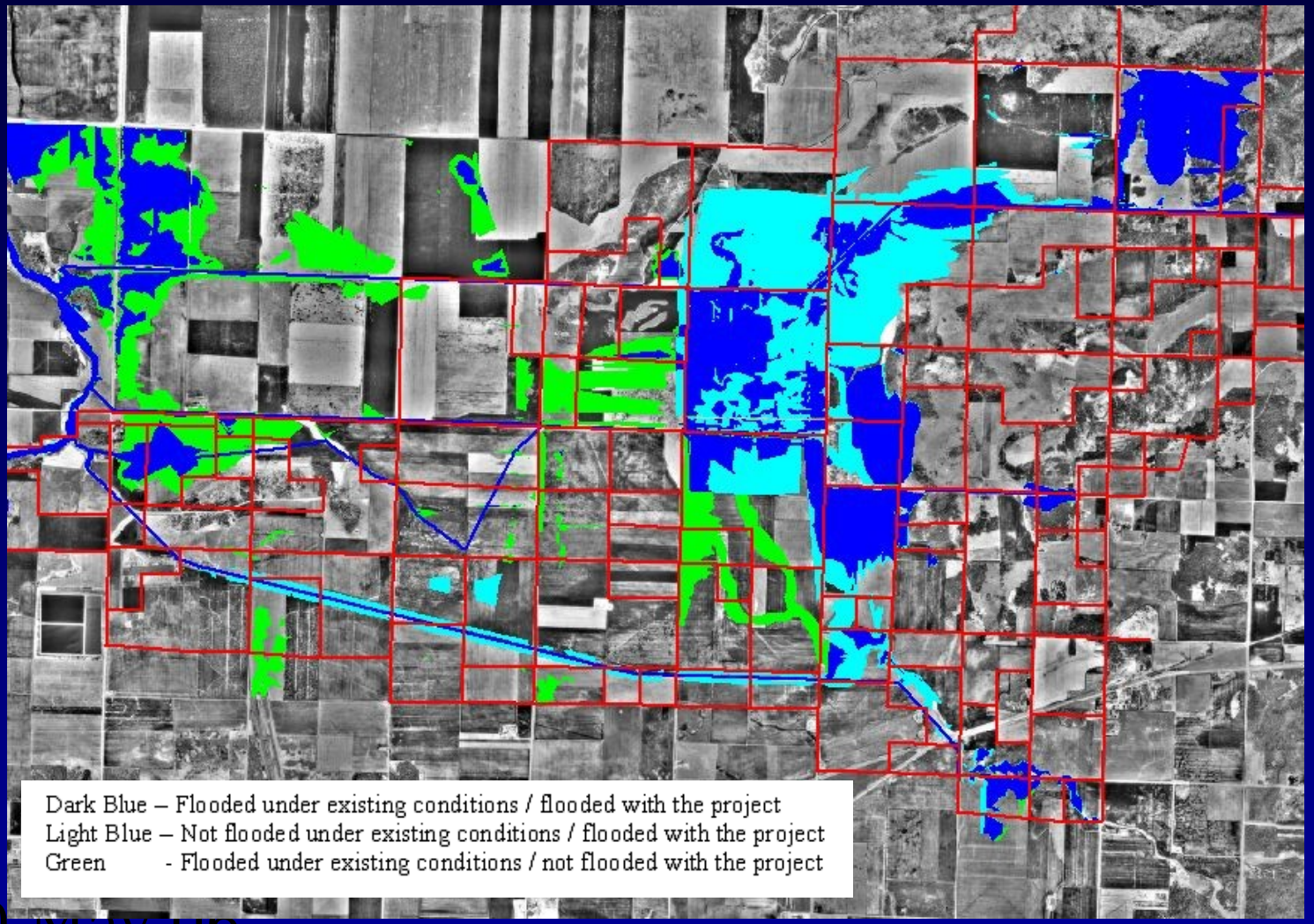
Hay Creek


Dark Blue – Flooded under existing conditions / flooded with the project
Light Blue – Not flooded under existing conditions / flooded with the project
Green - Flooded under existing conditions / not flooded with the project

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Ownership

The owner of the structure is responsible for operation and maintenance.

Do our agreements adequately address dam safety maintenance and inspections?

- PCA
- MOA
- Corps Owned

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Way Ahead

Planning and Project Management and E&C need to be in the loop.

Design Criteria and Guidance needs to be reviewed for adequacy with regard to environmental projects.

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Discussion/Questions